Listing of the Claims

1. -17. Canceled

18. (Currently amended) A protected amino acid useful for synthesis of a selectively derivatized peptide which has the formula:

and salts thereof wherein:

* indicates that the indicated C may be chiral, non-racemic or racemic;

PR is any appropriate <u>an</u> amine protecting group wherein the conditions for removal of the protecting group are substantially orthogonal to the conditions for removal of the azide-bearing protecting group:

R' is OH, OR, OAr, NH₂, NH(R or Ar), NR₂, N(Ar)₂, a group that generates an activated ester, a halogen, a substituted phenyl group, a halogenated phenyl group, benzotriazol-1-yl, N-hydroxysuccinimido, or 3,4-dihydro-4-oxo-1,2,3-benzotriazin-3-yl, where Ar is an optionally substituted aryl group;

R is H or alkyl,

A is an optionally substituted phenyl group;

n is 0 or 1; and

M is selected from the group consisting of:

- -(CH₂)_m- where m is 1-6;
- -CH₂-phenyl- wherein the phenyl can be optionally substituted;
- -CH₂-phenyl-O- wherein the phenyl can be optionally substituted;
- -(CR₂)_m- where m is 1-6, each R selected independently of other R;
- -CO-NH-SO₂-CH₂-CH₂-; and
- -CO-NH-CH2-CH2-.
- 19. (Original) The protected amino acid of claim 18 wherein PR is acid labile.
- 20. (Original)The protected amino acid of claim 18 wherein PR is base labile.
- 21. (Currently amended) The protected amino acid of claim 18 wherein PR is selected from the group consisting of [[:]] Boc, Bpoc, Trityl, Fmoc, Fmoc; 2-nitrosulphonyl, dithiasuccinoyl, diphenylphosphinyl, and sulfonyl.
- 22. (Original) The protected amino acid of claim 18 wherein n is 1 and R is H.
- (Original) The protected amino acid of claim 18 wherein n is 0 and R is CH₃.
- 24. (Original) The protected amino acid of claim 18 wherein n is 0 and R is H.
- (Original) The protected amino acid of claim 18 wherein the amino-protecting group is Fmoc.
- 26. (Original) The protected amino acid of claim 25 wherein n is 1 and R is H.
- (Original) The protected amino acid of claim 26 wherein M is -CH₂-.
- 28. (Original) The protected amino acid of claim 18 wherein M is -CH₂-.

- 29. (Original) The protected amino acid of claim 18 wherein R' is fluoride or chloride.
- (Original) A kit for the synthesis of a derivatized peptide which comprises one or more of the azide-protected amino acids of claim 18.
- 31. (Original) The kit of claim 30 wherein, in the azide-protected amino acid, PR is acid labile
- (Original) The kit of claim 30 wherein, in the azide-protected amino acid, PR is base labile.
- 33. (Currently amended)The kit of claim 30 wherein, in the azide-protected amino acid, PR is selected from the group consisting of [[:]] Boc, Bpoc, Trityl, Fmoc, Fmoc; 2-nitrosulphonyl, dithiasuccinoyl, diphenylphosphinyl, and sulfonyl.
- 34. (Original) The kit of claim 30 wherein, in the azide protected amino acid, n is 1 and R is H
- 35. (Original) The kit of claim 30 wherein, in the azide protected amino acid, n is 0 and R is CH₃.
- 36. (Original) The kit of claim 30 wherein, in the azide protected amino acid, n is 0 and R is H.
- 37. (Original) The kit of claim 30 wherein, in the azide protected amino acid, the amino-protecting group is Fmoc.
- 38. (Original) The kit of claim 30 wherein, in the azide protected amino acid, n is 1 and R is H

- (Original) The kit of claim 38 wherein, in the azide protected amino acid, M is CH

 CH.
- 40. (Currently amended) The kit of claim 30 wherein, in the azide protected amino acid, M is [[-CH2-]] -CH₂-.
- 41. (Original) The kit of claim 30 further comprising one or more amino acids for peptide synthesis other than azide-protected hydroxy amino acids wherein said one or more amino acids for peptide synthesis comprise α-amine group protection, optional side-chain protection and optional carboxy group protection, activation or both as appropriate for use with PR and the azide protecting group of the azide-protected hydroxy amino acids in the kit.
- 42. (Original) The kit of claim 41 wherein, in the azide-protected amino acid, PR is Fmoc.
- 43. (Original) The kit of claim 41 wherein, in the azide-protected amino acid, PR is Roc
- 44. (Original) The kit of claim 30 further comprising solid support materials appropriate for conducting peptide synthesis employing the protected amino acid or acids provided in the kit.
- 45. (Original) The kit of claim 30 further comprising one or more reagents for deprotecting the azide-protected amino acids in the kit.
- (Original) The kit of claim 30 further comprising one or more reagents for sulfation of a deprotected hydroxy amino acid.
- 47. (Original) The kit of claim 30 further comprising one or more reagents for phosphorylation of a deprotected hydroxy amino acid.

- 48. (Original) The kit of claim 30 further comprising one or more reagents for glycosylation of a deprotected hydroxy amino acid.
- 49. (Original) The kit of claim 30 further comprising instructions for conducting peptide synthesis employing the azide-protected amino acids in the kit.
- 50. (Original) A method for synthesizing a selectively modified peptide or amino acid which comprises the step of synthesizing a selectively-modified peptide employing the kit of claim 30

51.-56. Cancelled

- 57. (Original) The method of claim 50 wherein at least a portion of the peptide or protein is provided by step-wise solid phase peptide synthesis on a resin employing an amine-protected hydroxy amino acid in which the hydroxy group is protected with an azidomethylene group to incorporate at least one azide-protected hydroxy amino acid residue on a peptide synthesized on the resin.
- 58. (Original) The method of claim 57 wherein the amine protection group on the amine-protected hydroxy amino acid is an Fmoc group.
- 59. (Original) The method of claim 57 wherein the hydroxy amino acid is a tyrosine.
- 60. (Original) The method of claim 59 wherein the amine protection group on the amine-protected tyrosine is an Fmoc group.
- 61. (Original) The method of claim 57 wherein the azidomethylene protecting group is cleaved prior to cleavage of the peptide from the resin.
- 62. (Original) The method of claim 61 wherein the resin is a 2-chlorotrityl resin.

- 63.-66. Cancelled
- 67. (New) The protected amino acid of claim 18 wherein M is- $(CR_2)_m$ -.
- 68. (New) The protected amino acid of claim 18 wherein M is -(CH₂)_m-.
- 69. (New) The protected amino acid of claim 26 wherein M is-(CR₂)_m-.
- 70. (New) The protected amino acid of claim 26 wherein M is -(CH₂)_m-.
- 71. (New) The kit of claim 30 wherein, in the azide protected amino acid, M is $(CR_2)_m$ –.
- (New) The kit of claim 30 wherein, in the azide protected amino acid, M is (CH₂)_m-.
- 73. (New) The kit of claim 38 wherein, in the azide protected amino acid, M is $(CR_2)_m$ –.
- 74. (New) The kit of claim 38 wherein, in the azide protected amino acid, M is (CH₂)_m–.
- 75. (New) The protected amino acid of claim 18 which is an L-isomer.